

Table 14.4-5

Descriptive Statistics of Blood and/or Plasma Biomarkers of Exposure by Timepoint for Demographic Characteristics: Marital Status

TABLE 14.4-5

DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS

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Lab: Madison

Biomarker: Acetonitrile (ug/mL)

Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	181.74, 175.08	181.74, 175.08	133.60, 132.80	83.71, 69.45	94.79, 80.21
	SD, SE	NA, NA	52.389, 18.522	52.389, 18.522	20.541, 14.525	50.799, 19.200	49.720, 16.573
	MEDIAN	NA	180.93	180.93	133.60	88.30	97.36
	MIN, MAX	NA, NA	119.67, 260.21	119.67, 260.21	119.07, 148.12	30.00, 158.31	30.00, 158.31
	5%, 95%	NA, NA	119.67, 260.21	119.67, 260.21	119.07, 148.12	30.00, 158.31	30.00, 158.31
	BLQ Values Included	NA	0	0	0	2	2
Married	N	5	11	16	10	15	25
	MEAN, GEO MEAN	314.57, 254.15	166.85, 143.41	213.01, 171.49	116.51, 97.76	239.68, 95.38	190.41, 96.33
	SD, SE	268.483, 120.069	101.257, 30.530	176.233, 44.058	68.660, 21.712	414.026, 106.901	324.891, 64.978
	MEDIAN	218.62	119.11	175.61	95.22	90.66	90.66
	MIN, MAX	132.35, 789.93	66.48, 386.20	66.48, 789.93	30.00, 219.14	30.00, 1521.61	30.00, 1521.61
	5%, 95%	132.35, 789.93	66.48, 386.20	66.48, 789.93	30.00, 219.14	30.00, 1521.61	30.00, 812.94
	BLQ Values Included	1	0	1	2	5	7
Never been married	N	9	11	20	17	13	30
	MEAN, GEO MEAN	630.63, 548.37	280.98, 182.18	438.32, 299.13	216.99, 117.32	174.70, 95.29	198.66, 107.21
	SD, SE	343.467, 114.489	411.633, 124.112	413.159, 92.385	335.982, 81.488	270.141, 74.924	304.848, 55.657
	MEDIAN	663.26	148.21	258.63	108.15	87.15	89.44
	MIN, MAX	211.53, 1346.61	80.79, 1508.01	80.79, 1508.01	30.00, 1436.85	30.00, 972.68	30.00, 1436.85
	5%, 95%	211.53, 1346.61	80.79, 1508.01	90.14, 1427.31	30.00, 1436.85	30.00, 972.68	30.00, 972.68
	BLQ Values Included	0	0	0	5	1	6
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	364.28, 364.15	364.28, 364.15	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	13.760, 9.730	13.760, 9.730	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	364.28	364.28	NA	NA	NA
	MIN, MAX	NA, NA	354.55, 374.01	354.55, 374.01	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	354.55, 374.01	354.55, 374.01	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	30.00, 30.00	90.87, 90.87	60.44, 52.21
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	43.042, 30.435
	MEDIAN	NA	NA	NA	30.00	90.87	60.44
	MIN, MAX	NA, NA	NA, NA	NA, NA	30.00, 30.00	90.87, 90.87	30.00, 90.87
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	30.00, 90.87
	BLQ Values Included	NA	NA	NA	1	0	1

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (ng/mL)
Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	424.54, 271.53	424.54, 271.53	188.05, 187.01	171.58, 111.56	175.24, 125.13
	SD, SE	NA, NA	538.846, 190.511	538.846, 190.511	27.874, 19.710	155.208, 58.663	134.970, 44.990
	MEDIAN	NA	200.00	200.00	188.05	112.74	168.34
	MIN, MAX	NA, NA	113.65, 1701.68	113.65, 1701.68	168.34, 207.76	30.00, 448.23	30.00, 448.23
	5%, 95%	NA, NA	113.65, 1701.68	113.65, 1701.68	168.34, 207.76	30.00, 448.23	30.00, 448.23
	BLQ Values Included	NA	0	0	0	2	2
Married	N	5	11	16	10	15	25
	MEAN, GEO MEAN	705.89, 510.77	239.31, 169.71	385.12, 239.47	205.66, 128.93	155.01, 95.21	175.27, 107.48
	SD, SE	567.136, 253.631	188.501, 56.835	399.184, 99.796	201.919, 63.852	178.614, 46.118	185.851, 37.170
	MEDIAN	731.52	173.83	241.97	160.68	79.13	89.30
	MIN, MAX	137.22, 1578.50	30.00, 540.06	30.00, 1578.50	30.00, 688.37	30.00, 610.62	30.00, 688.37
	5%, 95%	137.22, 1578.50	30.00, 540.06	30.00, 1578.50	30.00, 688.37	30.00, 610.62	30.00, 610.62
	BLQ Values Included	0	1	1	2	2	4
Never been married	N	9	11	20	17	13	30
	MEAN, GEO MEAN	401.61, 365.88	265.55, 195.52	326.78, 259.21	141.83, 102.77	234.28, 131.38	181.89, 114.31
	SD, SE	183.297, 61.099	204.395, 61.627	202.378, 45.253	109.896, 26.654	254.084, 70.470	188.542, 34.423
	MEDIAN	406.11	156.46	280.34	107.07	95.44	101.26
	MIN, MAX	201.59, 697.98	48.66, 612.26	48.66, 697.98	30.00, 371.86	30.00, 756.74	30.00, 756.74
	5%, 95%	201.59, 697.98	48.66, 612.26	63.66, 679.64	30.00, 371.86	30.00, 756.74	30.00, 664.01
	BLQ Values Included	0	0	0	5	2	7
Separated	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	1002.96, 1002.96	1002.96, 1002.96	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	1002.96	1002.96	NA	NA	NA
	MIN, MAX	NA, NA	1002.96, 1002.96	1002.96, 1002.96	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	78.23, 78.23	188.37, 188.37	133.30, 121.39
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	77.881, 55.070
	MEDIAN	NA	NA	NA	78.23	188.37	133.30
	MIN, MAX	NA, NA	NA, NA	NA, NA	78.23, 78.23	188.37, 188.37	78.23, 188.37
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	78.23, 188.37
	BLQ Values Included	NA	NA	NA	0	0	0

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (ng/mL)
Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	609.67, 326.08	609.67, 326.08	330.67, 229.53	85.54, 80.08	140.01, 101.19
	SD, SE	NA, NA	814.328, 287.908	814.328, 287.908	336.618, 238.025	32.547, 12.302	163.224, 54.408
	MEDIAN	NA	228.33	228.33	330.67	85.71	92.64
	MIN, MAX	NA, NA	117.46, 2333.96	117.46, 2333.96	92.64, 568.69	42.35, 138.79	42.35, 568.69
	5%, 95%	NA, NA	117.46, 2333.96	117.46, 2333.96	92.64, 568.69	42.35, 138.79	42.35, 568.69
Married	BLQ Values Included	NA	0	0	0	0	0
	N	5	11	16	10	15	25
	MEAN, GEO MEAN	1503.42, 943.79	395.78, 276.17	741.91, 405.46	145.87, 110.65	247.16, 154.48	206.64, 135.18
	SD, SE	1156.260, 517.094	295.720, 89.163	834.249, 208.562	100.985, 31.934	290.347, 74.967	235.723, 47.145
	MEDIAN	2035.76	351.05	396.67	129.44	169.85	132.65
	MIN, MAX	166.78, 2679.33	46.59, 902.53	46.59, 2679.33	30.00, 326.50	30.00, 1168.91	30.00, 1168.91
Never been married	5%, 95%	166.78, 2679.33	46.59, 902.53	46.59, 2679.33	30.00, 326.50	30.00, 1168.91	30.00, 568.52
	BLQ Values Included	0	0	0	2	2	4
	N	9	9	18	16	13	29
	MEAN, GEO MEAN	638.29, 461.83	219.87, 182.28	429.08, 290.14	246.49, 170.35	155.21, 103.12	205.57, 136.02
	SD, SE	704.706, 234.902	143.817, 47.939	538.308, 126.880	197.081, 49.270	172.308, 47.790	188.856, 35.070
	MEDIAN	381.86	161.68	282.74	184.56	91.93	127.86
Separated	MIN, MAX	197.44, 2441.49	67.97, 482.45	67.97, 2441.49	30.00, 722.48	30.00, 619.94	30.00, 722.48
	5%, 95%	197.44, 2441.49	67.97, 482.45	67.97, 2441.49	30.00, 722.48	30.00, 619.94	30.00, 619.94
	BLQ Values Included	0	0	0	4	2	6
	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	242.43, 242.43	242.43, 242.43	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
Widowed	MEDIAN	NA	242.43	242.43	NA	NA	NA
	MIN, MAX	NA, NA	242.43, 242.43	242.43, 242.43	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	59.43, 59.43	153.34, 153.34	106.39, 95.46
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	66.404, 46.955
	MEDIAN	NA	NA	NA	59.43	153.34	106.39
	MIN, MAX	NA, NA	NA, NA	NA, NA	59.43, 59.43	153.34, 153.34	59.43, 153.34
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	59.43, 153.34
	BLQ Values Included	NA	NA	NA	0	0	0

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (ng/mL)
Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	358.65, 255.52	358.65, 255.52	143.68, 141.70	259.79, 130.19	233.99, 132.67
	SD, SE	NA, NA	394.711, 139.552	394.711, 139.552	33.566, 23.735	255.878, 96.713	227.745, 75.915
	MEDIAN	NA	268.59	268.59	143.68	183.91	167.41
	MIN, MAX	NA, NA	99.35, 1308.82	99.35, 1308.82	119.94, 167.41	30.00, 638.04	30.00, 638.04
	5%, 95%	NA, NA	99.35, 1308.82	99.35, 1308.82	119.94, 167.41	30.00, 638.04	30.00, 638.04
Married	BLQ Values Included	NA	0	0	0	3	3
	N	6	11	17	10	15	25
	MEAN, GEO MEAN	470.61, 314.37	430.70, 245.68	444.78, 268.02	148.61, 91.07	149.45, 96.56	149.11, 94.33
	SD, SE	348.902, 142.439	501.242, 151.130	442.103, 107.226	212.861, 67.312	165.325, 42.687	181.481, 36.296
	MEDIAN	470.63	170.13	281.08	81.98	95.95	84.72
	MIN, MAX	31.69, 1060.80	49.12, 1406.38	31.69, 1406.38	30.00, 744.35	30.00, 656.31	30.00, 744.35
Never been married	5%, 95%	31.69, 1060.80	49.12, 1406.38	31.69, 1406.38	30.00, 744.35	30.00, 656.31	30.00, 656.31
	BLQ Values Included	0	0	0	2	4	6
	N	7	8	15	17	13	30
	MEAN, GEO MEAN	533.43, 512.69	492.01, 244.69	511.34, 345.56	232.62, 139.80	346.12, 233.12	281.81, 174.48
	SD, SE	150.700, 56.959	663.815, 234.694	480.121, 123.967	245.445, 59.529	284.500, 78.906	264.580, 48.305
	MEDIAN	590.65	150.88	382.92	111.07	226.96	154.59
Separated	MIN, MAX	298.89, 696.13	103.47, 1665.36	103.47, 1665.36	30.00, 886.61	44.70, 947.37	30.00, 947.37
	5%, 95%	298.89, 696.13	103.47, 1665.36	103.47, 1665.36	30.00, 886.61	44.70, 947.37	30.00, 886.61
	BLQ Values Included	0	0	0	4	0	4
	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	405.98, 405.98	405.98, 405.98	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
Widowed	MEDIAN	NA	405.98	405.98	NA	NA	NA
	MIN, MAX	NA, NA	405.98, 405.98	405.98, 405.98	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	379.50, 379.50	469.84, 469.84	424.67, 422.26
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	63.880, 45.170
	MEDIAN	NA	NA	NA	379.50	469.84	424.67
	MIN, MAX	NA, NA	NA, NA	NA, NA	379.50, 379.50	469.84, 469.84	379.50, 469.84
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	379.50, 469.84
	BLQ Values Included	NA	NA	NA	0	0	0

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (ng/mL)
Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	393.65, 321.71	393.65, 321.71	199.00, 187.47	150.16, 125.38	161.01, 137.10
	SD, SE	NA, NA	259.774, 91.844	259.774, 91.844	94.378, 66.735	83.757, 31.657	82.696, 27.565
	MEDIAN	NA	277.95	277.95	199.00	155.82	155.82
	MIN, MAX	NA, NA	116.24, 775.61	116.24, 775.61	132.26, 265.73	40.12, 266.42	40.12, 266.42
Married	5%, 95%	NA, NA	116.24, 775.61	116.24, 775.61	132.26, 265.73	40.12, 266.42	40.12, 266.42
	N	6	11	17	10	15	25
	MEAN, GEO MEAN	673.59, 529.66	308.16, 247.01	437.13, 323.33	154.16, 127.91	197.83, 134.42	180.36, 131.78
	SD, SE	451.803, 184.448	213.905, 64.495	353.254, 85.677	107.313, 33.935	194.446, 50.206	163.861, 32.772
	MEDIAN	683.92	259.92	269.53	116.64	115.53	116.59
Never been married	MIN, MAX	210.12, 1175.90	82.80, 697.51	82.80, 1175.90	41.94, 382.95	30.00, 701.92	30.00, 701.92
	5%, 95%	210.12, 1175.90	82.80, 697.51	82.80, 1175.90	41.94, 382.95	30.00, 701.92	41.94, 547.22
	N	9	11	20	17	13	30
	MEAN, GEO MEAN	573.58, 526.73	294.29, 215.42	419.97, 322.12	208.62, 187.91	227.58, 195.20	216.83, 191.04
	SD, SE	315.745, 105.248	279.319, 84.218	321.499, 71.889	99.975, 24.247	145.242, 40.283	119.728, 21.859
Separated	MEDIAN	481.97	154.57	389.95	175.00	177.34	176.58
	MIN, MAX	380.58, 1398.07	85.41, 995.06	85.41, 1398.07	86.90, 452.37	86.35, 599.86	86.35, 599.86
	5%, 95%	380.58, 1398.07	85.41, 995.06	86.12, 1196.57	86.90, 452.37	86.35, 599.86	86.90, 452.37
	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	430.45, 423.71	430.45, 423.71	NA, NA	NA, NA	NA, NA
Widowed	SD, SE	NA, NA	107.339, 75.900	107.339, 75.900	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	430.45	430.45	NA	NA	NA
	MIN, MAX	NA, NA	354.55, 506.35	354.55, 506.35	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	354.55, 506.35	354.55, 506.35	NA, NA	NA, NA	NA, NA
	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	136.79, 136.79	225.61, 225.61	181.20, 175.67
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	62.805, 44.410
	MEDIAN	NA	NA	NA	136.79	225.61	181.20
	MIN, MAX	NA, NA	NA, NA	NA, NA	136.79, 136.79	225.61, 225.61	136.79, 225.61
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	136.79, 225.61

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	4430.9, 4268.4	4430.9, 4268.4	3257.1, 3237.7	2040.8, 1693.2	2311.1, 1955.5
	SD, SE	NA, NA	1277.24, 451.57	1277.24, 451.57	500.84, 354.15	1238.48, 468.10	1212.18, 404.06
	MEDIAN	NA	4411.1	4411.1	3257.1	2152.8	2373.6
	MIN, MAX	NA, NA	2917.6, 6343.9	2917.6, 6343.9	2902.9, 3611.2	731.4, 3859.6	731.4, 3859.6
	5%, 95%	NA, NA	2917.6, 6343.9	2917.6, 6343.9	2902.9, 3611.2	731.4, 3859.6	731.4, 3859.6
	BLQ Values Included	NA	0	0	0	2	2
Married	N	5	11	16	10	15	25
	MEAN, GEO MEAN	7669.2, 6196.1	4067.8, 3496.4	5193.2, 4180.9	2840.5, 2383.4	5843.5, 2325.3	4642.3, 2348.4
	SD, SE	6545.60, 2927.28	2468.67, 744.33	4296.57, 1074.14	1673.91, 529.34	10094.00, 2606.25	7920.86, 1584.17
	MEDIAN	5330.0	2903.9	4281.4	2321.5	2210.3	2210.3
	MIN, MAX	3226.7, 19258.5	1620.8, 9415.6	1620.8, 19258.5	731.4, 5342.6	731.4, 37096.9	731.4, 37096.9
	5%, 95%	3226.7, 19258.5	1620.8, 9415.6	1620.8, 19258.5	731.4, 5342.6	731.4, 37096.9	731.4, 19819.5
	BLQ Values Included	1	0	1	2	5	7
Never been married	N	9	11	20	17	13	30
	MEAN, GEO MEAN	15374.6, 13369.2	6850.4, 4441.6	10686.3, 7292.8	5290.3, 2860.3	4259.1, 2323.0	4843.4, 2613.7
	SD, SE	8373.73, 2791.24	10035.60, 3025.85	10072.80, 2252.35	8191.23, 1986.67	6586.04, 1826.64	7432.18, 1356.93
	MEDIAN	16170.3	3613.4	6305.4	2636.7	2124.7	2180.5
	MIN, MAX	5157.1, 32830.4	1969.7, 36765.3	1969.7, 36765.3	731.4, 35030.4	731.4, 23713.9	731.4, 35030.4
	5%, 95%	5157.1, 32830.4	1969.7, 36765.3	2197.5, 34797.9	731.4, 35030.4	731.4, 23713.9	731.4, 23713.9
	BLQ Values Included	0	0	0	5	1	6
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	8881.2, 8878.0	8881.2, 8878.0	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	335.52, 237.25	335.52, 237.25	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	8881.2	8881.2	NA	NA	NA
	MIN, MAX	NA, NA	8643.9, 9118.4	8643.9, 9118.4	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	8643.9, 9118.4	8643.9, 9118.4	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	731.4, 731.4	2215.4, 2215.4	1473.4, 1272.9
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	1049.35, 742.00
	MEDIAN	NA	NA	NA	731.4	2215.4	1473.4
	MIN, MAX	NA, NA	NA, NA	NA, NA	731.4, 731.4	2215.4, 2215.4	731.4, 2215.4
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	731.4, 2215.4
	BLQ Values Included	NA	NA	NA	1	0	1

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	10350.3, 6619.8	10350.3, 6619.8	4584.7, 4559.4	4183.2, 2719.7	4272.4, 3050.6
	SD, SE	NA, NA	13137.10, 4644.66	13137.10, 4644.66	679.60, 480.55	3783.93, 1430.20	3290.56, 1096.85
	MEDIAN	NA	4876.0	4876.0	4584.7	2748.6	4104.1
	MIN, MAX	NA, NA	2770.8, 41487.0	2770.8, 41487.0	4104.1, 5065.2	731.4, 10927.8	731.4, 10927.8
	5%, 95%	NA, NA	2770.8, 41487.0	2770.8, 41487.0	4104.1, 5065.2	731.4, 10927.8	731.4, 10927.8
	BLQ Values Included	NA	0	0	0	2	2
Married	N	5	11	16	10	15	25
	MEAN, GEO MEAN	17209.5, 12452.6	5834.5, 4137.5	9389.2, 5838.2	5014.0, 3143.3	3779.2, 2321.1	4273.1, 2620.4
	SD, SE	13826.80, 6183.52	4595.67, 1385.65	9732.09, 2433.02	4922.78, 1556.72	4354.59, 1124.35	4531.04, 906.21
	MEDIAN	17834.5	4238.0	5899.3	3917.4	1929.2	2177.1
	MIN, MAX	3345.4, 38483.8	731.4, 13166.7	731.4, 38483.8	731.4, 16782.5	731.4, 14886.9	731.4, 16782.5
	5%, 95%	3345.4, 38483.8	731.4, 13166.7	731.4, 38483.8	731.4, 16782.5	731.4, 14886.9	731.4, 14886.9
	BLQ Values Included	0	1	1	2	2	4
Never been married	N	9	11	20	17	13	30
	MEAN, GEO MEAN	9791.2, 8920.1	6474.1, 4766.7	7966.8, 6319.5	3457.8, 2505.6	5711.7, 3203.1	4434.5, 2786.9
	SD, SE	4468.78, 1489.59	4983.15, 1502.48	4934.00, 1103.28	2679.26, 649.82	6194.57, 1718.06	4596.66, 839.23
	MEDIAN	9901.0	3814.5	6834.7	2610.4	2326.8	2468.6
	MIN, MAX	4914.8, 17016.8	1186.3, 14926.9	1186.3, 17016.8	731.4, 9065.9	731.4, 18449.3	731.4, 18449.3
	5%, 95%	4914.8, 17016.8	1186.3, 14926.9	1552.0, 16569.7	731.4, 9065.9	731.4, 18449.3	731.4, 16188.6
	BLQ Values Included	0	0	0	5	2	7
Separated	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	24452.2, 24452.2	24452.2, 24452.2	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	24452.2	24452.2	NA	NA	NA
	MIN, MAX	NA, NA	24452.2, 24452.2	24452.2, 24452.2	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	1907.2, 1907.2	4592.5, 4592.5	3249.9, 2959.5
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	1898.79, 1342.65
	MEDIAN	NA	NA	NA	1907.2	4592.5	3249.9
	MIN, MAX	NA, NA	NA, NA	NA, NA	1907.2, 1907.2	4592.5, 4592.5	1907.2, 4592.5
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	1907.2, 4592.5
	BLQ Values Included	NA	NA	NA	0	0	0

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	14863.8, 7949.8	14863.8, 7949.8	8061.7, 5596.0	2085.4, 1952.3	3413.5, 2467.1
	SD, SE	NA, NA	19853.30, 7019.20	19853.30, 7019.20	8206.75, 5803.05	793.49, 299.91	3979.41, 1326.47
	MEDIAN	NA	5566.7	5566.7	8061.7	2089.6	2258.6
	MIN, MAX	NA, NA	2863.7, 56901.9	2863.7, 56901.9	2258.6, 13864.7	1032.5, 13863.7	1032.5, 13864.7
	5%, 95%	NA, NA	2863.7, 56901.9	2863.7, 56901.9	2258.6, 13864.7	1032.5, 3383.7	1032.5, 13864.7
Married	BLQ Values Included	NA	0	0	0	0	0
	N	5	11	16	10	15	25
	MEAN, GEO MEAN	36653.3, 23009.5	9649.0, 6732.9	18087.9, 9885.2	3556.3, 2697.8	6025.7, 3766.3	5038.0, 3295.7
	SD, SE	28189.50, 12606.70	7209.67, 2173.60	20339.00, 5084.75	2462.01, 778.56	7078.66, 1827.70	5746.91, 1149.38
	MEDIAN	49631.8	8558.6	9670.8	3155.8	4140.9	3234.0
	MIN, MAX	4066.1, 65322.1	1135.9, 22003.7	1135.9, 65322.1	731.4, 7960.1	731.4, 28498.0	731.4, 28498.0
Never been married	5%, 95%	4066.1, 65322.1	1135.9, 22003.7	1135.9, 65322.1	731.4, 7960.1	731.4, 28498.0	731.4, 13860.5
	BLQ Values Included	0	0	0	2	2	4
	N	9	9	18	16	13	29
	MEAN, GEO MEAN	15561.6, 11259.3	5360.5, 4444.0	10461.0, 7073.6	6009.4, 4153.2	3783.9, 2514.0	5011.8, 3316.3
	SD, SE	17180.70, 5726.90	3506.24, 1168.75	13123.90, 3093.34	4804.86, 1201.22	4200.86, 1165.11	4604.32, 855.00
	MEDIAN	9309.7	3941.8	6893.1	4499.6	2241.3	3117.2
Separated	MIN, MAX	4813.6, 59523.5	1657.1, 11762.1	1657.1, 59523.5	731.4, 17614.1	731.4, 15114.1	731.4, 17614.1
	5%, 95%	4813.6, 59523.5	1657.1, 11762.1	1657.1, 59523.5	731.4, 17614.1	731.4, 15114.1	731.4, 15114.1
	BLQ Values Included	0	0	0	4	2	6
	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	5910.4, 5910.4	5910.4, 5910.4	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
Widowed	MEDIAN	NA	5910.4	5910.4	NA	NA	NA
	MIN, MAX	NA, NA	5910.4, 5910.4	5910.4, 5910.4	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	1448.9, 1448.9	3738.4, 3738.4	2593.7, 2327.4
Widowed	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	1618.92, 1144.75
	MEDIAN	NA	NA	NA	1448.9	3738.4	2593.7
	MIN, MAX	NA, NA	NA, NA	NA, NA	1448.9, 1448.9	3738.4, 3738.4	1448.9, 3738.4
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	1448.9, 3738.4
	BLQ Values Included	NA	NA	NA	0	0	0

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	8743.8, 6229.6	8743.8, 6229.6	3502.8, 3454.7	6333.7, 3174.1	5704.6, 3234.4
	SD, SE	NA, NA	9623.05, 3402.26	9623.05, 3402.26	818.41, 578.70	6238.31, 2357.86	5552.42, 1850.81
	MEDIAN	NA	6548.2	6548.2	3502.8	4483.7	4081.5
	MIN, MAX	NA, NA	2422.2, 31909.0	2422.2, 31909.0	2924.1, 4081.5	731.4, 15555.4	731.4, 15555.4
	5%, 95%	NA, NA	2422.2, 31909.0	2422.2, 31909.0	2924.1, 4081.5	731.4, 15555.4	731.4, 15555.4
	BLQ Values Included	NA	0	0	0	3	3
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	11473.3, 7664.4	10500.4, 5989.8	10843.8, 6534.3	3623.0, 2220.3	3643.6, 2354.1	3635.4, 2299.7
	SD, SE	8506.24, 3472.66	12220.30, 3684.55	10778.50, 2614.16	5189.56, 1641.08	4030.61, 1040.70	4424.49, 884.90
	MEDIAN	11473.8	4147.8	6852.7	1998.6	2339.3	2065.5
	MIN, MAX	772.6, 25862.3	1197.5, 34287.5	772.6, 34287.5	731.4, 18147.3	731.4, 16000.8	731.4, 18147.3
	5%, 95%	772.6, 25862.3	1197.5, 34287.5	772.6, 34287.5	731.4, 18147.3	731.4, 16000.8	731.4, 16000.8
	BLQ Values Included	0	0	0	2	4	6
Never been married	N	7	8	15	17	13	30
	MEAN, GEO MEAN	13005.1, 12499.2	11995.2, 5965.6	12466.5, 8424.8	5671.4, 3408.3	8438.4, 5683.5	6870.4, 4253.7
	SD, SE	3674.07, 1388.67	16183.80, 5721.85	11705.40, 3022.31	5983.96, 1451.32	6936.10, 1923.73	6450.45, 1177.69
	MEDIAN	14400.0	3678.3	9335.6	2707.9	5533.3	3768.8
	MIN, MAX	7286.9, 16971.6	2522.6, 40601.5	2522.6, 40601.5	731.4, 21615.6	1089.8, 23096.9	731.4, 23096.9
	5%, 95%	7286.9, 16971.6	2522.6, 40601.5	2522.6, 40601.5	731.4, 21615.6	1089.8, 23096.9	731.4, 21615.6
	BLQ Values Included	0	0	0	4	0	4
Separated	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	9897.8, 9897.8	9897.8, 9897.8	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	9897.8	9897.8	NA	NA	NA
	MIN, MAX	NA, NA	9897.8, 9897.8	9897.8, 9897.8	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	9252.2, 9252.2	11454.7, 11454.7	10353.5, 10294.7
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	1557.40, 1101.25
	MEDIAN	NA	NA	NA	9252.2	11454.7	10353.5
	MIN, MAX	NA, NA	NA, NA	NA, NA	9252.2, 9252.2	11454.7, 11454.7	9252.2, 11454.7
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	9252.2, 11454.7
	BLQ Values Included	NA	NA	NA	0	0	0

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	9597.2, 7843.1	9597.2, 7843.1	4851.6, 4570.6	3660.8, 3056.7	3925.4, 3342.5
	SD, SE	NA, NA	6333.28, 2239.15	6333.28, 2239.15	2301.00, 1627.05	2041.98, 771.80	2016.13, 672.04
	MEDIAN	NA	6776.5	6776.5	4851.6	3798.9	3798.9
	MIN, MAX	NA, NA	2833.8, 18909.3	2833.8, 18909.3	3224.5, 6478.6	978.1, 6495.2	978.1, 6495.2
	5%, 95%	NA, NA	2833.8, 18909.3	2833.8, 18909.3	3224.5, 6478.6	978.1, 6495.2	978.1, 6495.2
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	16422.0, 12913.0	7512.9, 6022.1	10657.3, 7882.6	3758.5, 3118.4	4823.0, 3277.1	4397.2, 3212.7
	SD, SE	11015.00, 4496.84	5214.99, 1572.38	8612.33, 2088.80	2616.25, 827.33	4740.60, 1224.02	3994.94, 798.99
	MEDIAN	16674.0	6336.7	6571.2	2843.6	2816.6	2842.5
	MIN, MAX	5122.7, 28668.4	2018.6, 17005.3	2018.6, 28668.4	1022.5, 9336.2	731.4, 17112.8	731.4, 17112.8
	5%, 95%	5122.7, 28668.4	2018.6, 17005.3	2018.6, 28668.4	1022.5, 9336.2	731.4, 17112.8	1022.5, 13341.3
Never been married	N	9	11	20	17	13	30
	MEAN, GEO MEAN	13983.3, 12841.7	7174.7, 5251.8	10238.8, 7853.3	5086.1, 4581.3	5548.3, 4758.9	5286.4, 4657.4
	SD, SE	7697.88, 2565.96	6809.80, 2053.23	7838.15, 1752.66	2437.36, 591.15	3541.03, 982.11	2918.98, 532.93
	MEDIAN	11750.5	3768.5	9506.9	4266.5	4323.6	4304.9
	MIN, MAX	9278.6, 34085.0	2082.3, 24259.5	2082.3, 34085.0	2118.7, 11028.7	2105.1, 14624.7	2105.1, 14624.7
	5%, 95%	9278.6, 34085.0	2082.3, 24259.5	2099.6, 29172.3	2118.7, 11028.7	2105.1, 14624.7	2118.7, 11028.7
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	10494.3, 10329.9	10494.3, 10329.9	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	2616.86, 1850.40	2616.86, 1850.40	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	10494.3	10494.3	NA	NA	NA
	MIN, MAX	NA, NA	8643.9, 12344.7	8643.9, 12344.7	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	8643.9, 12344.7	8643.9, 12344.7	NA, NA	NA, NA	NA, NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	3334.9, 3334.9	5500.3, 5500.3	4417.6, 4282.9
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	1531.17, 1082.70
	MEDIAN	NA	NA	NA	3334.9	5500.3	4417.6
	MIN, MAX	NA, NA	NA, NA	NA, NA	3334.9, 3334.9	5500.3, 5500.3	3334.9, 5500.3
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	3334.9, 5500.3

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: CCLS
Biomarker: Carboxyhemoglobin (% saturation)
Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	1	8	9	2	7	9
	MEAN, GEO MEAN	4.6, 4.6	5.2, 4.6	5.1, 4.6	0.3, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	NA, NA	2.32, 0.82	2.18, 0.73	0.00, 0.00	0.00, 0.00	0.00, 0.00
	MEDIAN	4.6	4.9	4.7	0.3	0.3	0.3
	MIN, MAX	4.6, 4.6	1.6, 8.0	1.6, 8.0	0.3, 0.3	0.3, 0.3	0.3, 0.3
	5%, 95%	NA, NA	1.6, 8.0	1.6, 8.0	0.3, 0.3	0.3, 0.3	0.3, 0.3
	BLQ Values Included	0	0	0	2	7	9
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	3.6, 2.6	4.6, 3.2	4.2, 3.0	0.4, 0.4	0.3, 0.3	0.4, 0.4
	SD, SE	2.23, 0.91	3.90, 1.18	3.37, 0.82	0.13, 0.04	0.11, 0.03	0.13, 0.03
	MEDIAN	3.8	2.9	3.4	0.5	0.3	0.3
	MIN, MAX	0.3, 6.7	0.9, 11.4	0.3, 11.4	0.3, 0.7	0.3, 0.7	0.3, 0.7
	5%, 95%	0.3, 6.7	0.9, 11.4	0.3, 11.4	0.3, 0.7	0.3, 0.7	0.3, 0.7
	BLQ Values Included	1	0	1	3	11	14
Never been married	N	11	11	22	17	13	30
	MEAN, GEO MEAN	4.8, 3.6	3.7, 2.7	4.2, 3.1	0.5, 0.5	0.3, 0.3	0.4, 0.4
	SD, SE	4.00, 1.21	2.67, 0.81	3.37, 0.72	0.23, 0.06	0.03, 0.01	0.21, 0.04
	MEDIAN	4.0	3.1	3.2	0.4	0.3	0.3
	MIN, MAX	0.9, 14.8	0.8, 8.9	0.8, 14.8	0.3, 1.0	0.3, 0.4	0.3, 1.0
	5%, 95%	0.9, 14.8	0.8, 8.9	0.9, 8.9	0.3, 1.0	0.3, 0.4	0.3, 0.8
	BLQ Values Included	0	0	0	6	10	16
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	5.0, 3.9	5.0, 3.9	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	4.31, 3.05	4.31, 3.05	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	5.0	5.0	NA	NA	NA
	MIN, MAX	NA, NA	1.9, 8.0	1.9, 8.0	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	1.9, 8.0	1.9, 8.0	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.00, 0.00
	MEDIAN	NA	NA	NA	0.3	0.3	0.3
	MIN, MAX	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.3, 0.3	0.3, 0.3
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.3, 0.3
	BLQ Values Included	NA	NA	NA	1	0	1

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	1	8	9	2	7	9
	MEAN, GEO MEAN	1.8, 1.8	4.4, 3.9	4.1, 3.6	0.3, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	NA, NA	2.22, 0.79	2.25, 0.75	0.00, 0.00	0.04, 0.01	0.03, 0.01
	MEDIAN	1.8	4.2	3.7	0.3	0.3	0.3
	MIN, MAX	1.8, 1.8	2.1, 8.6	1.8, 8.6	0.3, 0.3	0.3, 0.4	0.3, 0.4
	5%, 95%	NA, NA	2.1, 8.6	1.8, 8.6	0.3, 0.3	0.3, 0.4	0.3, 0.4
Married	BLQ Values Included	0	0	0	2	6	8
	N	6	11	17	10	15	25
	MEAN, GEO MEAN	3.9, 2.6	4.3, 2.5	4.1, 2.5	0.4, 0.4	0.3, 0.3	0.3, 0.3
	SD, SE	2.92, 1.19	4.17, 1.26	3.68, 0.89	0.18, 0.06	0.05, 0.01	0.12, 0.02
	MEDIAN	3.0	3.1	3.1	0.3	0.3	0.3
	MIN, MAX	0.3, 8.1	0.3, 13.3	0.3, 13.3	0.3, 0.8	0.3, 0.5	0.3, 0.8
Never been married	5%, 95%	0.3, 8.1	0.3, 13.3	0.3, 13.3	0.3, 0.8	0.3, 0.5	0.3, 0.6
	BLQ Values Included	1	1	2	6	13	19
	N	11	11	22	17	13	30
	MEAN, GEO MEAN	3.8, 2.8	4.0, 2.5	3.9, 2.7	0.5, 0.4	0.3, 0.3	0.4, 0.4
	SD, SE	2.77, 0.84	3.13, 0.94	2.89, 0.62	0.26, 0.06	0.06, 0.02	0.20, 0.04
	MEDIAN	3.7	4.4	4.1	0.3	0.3	0.3
Separated	MIN, MAX	0.5, 8.6	0.3, 10.1	0.3, 10.1	0.3, 1.1	0.3, 0.5	0.3, 1.1
	5%, 95%	0.5, 8.6	0.3, 10.1	0.4, 8.6	0.3, 1.1	0.3, 0.5	0.3, 0.9
	BLQ Values Included	0	1	1	9	10	19
	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	2.7, 2.7	2.7, 2.7	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
Widowed	MEDIAN	NA	2.7	2.7	NA	NA	NA
	MIN, MAX	NA, NA	2.7, 2.7	2.7, 2.7	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.00, 0.00
	MEDIAN	NA	NA	NA	0.3	0.3	0.3
	MIN, MAX	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.3, 0.3	0.3, 0.3
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.3, 0.3
	BLQ Values Included	NA	NA	NA	0	1	1

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: CCLS
Biomarker: Carboxyhemoglobin (% saturation)
Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	5.9, 5.4	5.9, 5.4	0.4, 0.4	0.8, 0.5	0.7, 0.5
	SD, SE	NA, NA	2.61, 0.92	2.61, 0.92	0.14, 0.10	0.89, 0.34	0.79, 0.26
	MEDIAN	NA	5.3	5.3	0.4	0.3	0.3
	MIN, MAX	NA, NA	3.1, 9.2	3.1, 9.2	0.3, 0.5	0.3, 2.5	0.3, 2.5
	5%, 95%	NA, NA	3.1, 9.2	3.1, 9.2	0.3, 0.5	0.3, 2.5	0.3, 2.5
Married	BLQ Values Included	NA	0	0	1	5	6
	N	6	11	17	10	15	25
	MEAN, GEO MEAN	3.7, 2.3	4.1, 2.7	3.9, 2.6	0.4, 0.4	0.5, 0.4	0.4, 0.4
	SD, SE	2.90, 1.19	3.26, 0.98	3.05, 0.74	0.15, 0.05	0.50, 0.13	0.40, 0.08
	MEDIAN	3.7	2.7	3.4	0.3	0.3	0.3
	MIN, MAX	0.3, 8.1	0.3, 9.7	0.3, 9.7	0.3, 0.7	0.3, 2.2	0.3, 2.2
Never been married	5%, 95%	0.3, 8.1	0.3, 9.7	0.3, 9.7	0.3, 0.7	0.3, 2.2	0.3, 0.9
	BLQ Values Included	1	0	1	6	12	18
	N	11	9	20	17	13	30
	MEAN, GEO MEAN	5.3, 4.1	4.7, 4.2	5.0, 4.1	0.6, 0.4	0.4, 0.4	0.5, 0.4
	SD, SE	3.82, 1.15	2.37, 0.79	3.18, 0.71	0.61, 0.15	0.17, 0.05	0.47, 0.09
	MEDIAN	3.8	4.1	4.1	0.3	0.3	0.3
Separated	MIN, MAX	1.8, 11.3	1.3, 9.3	1.3, 11.3	0.3, 2.8	0.3, 0.8	0.3, 2.8
	5%, 95%	1.8, 11.3	1.3, 9.3	1.6, 10.9	0.3, 2.8	0.3, 0.8	0.3, 1.0
	BLQ Values Included	0	0	0	8	5	13
	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	3.6, 3.6	3.6, 3.6	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
Widowed	MEDIAN	NA	3.6	3.6	NA	NA	NA
	MIN, MAX	NA, NA	3.6, 3.6	3.6, 3.6	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.00, 0.00
	MEDIAN	NA	NA	NA	0.3	0.3	0.3
	MIN, MAX	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.3, 0.3	0.3, 0.3
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.3, 0.3
	BLQ Values Included	NA	NA	NA	1	0	1

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
(Page 14 of 7)

Lab: CCLS
Biomarker: Carboxyhemoglobin (% saturation)
Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	5.1, 4.6	5.1, 4.6	0.4, 0.4	0.3, 0.3	0.3, 0.3
	SD, SE	NA, NA	2.46, 0.87	2.46, 0.87	0.14, 0.10	0.04, 0.01	0.07, 0.02
	MEDIAN	NA	4.7	4.7	0.4	0.3	0.3
	MIN, MAX	NA, NA	2.4, 9.2	2.4, 9.2	0.3, 0.5	0.3, 0.4	0.3, 0.5
	5%, 95%	NA, NA	2.4, 9.2	2.4, 9.2	0.3, 0.5	0.3, 0.4	0.3, 0.5
Married	BLQ Values Included	NA	0	0	1	4	5
	N	5	11	16	10	15	25
	MEAN, GEO MEAN	4.3, 2.6	4.3, 2.5	4.3, 2.5	0.4, 0.4	0.4, 0.4	0.4, 0.4
	SD, SE	3.48, 1.55	3.57, 1.08	3.43, 0.86	0.25, 0.08	0.28, 0.07	0.26, 0.05
	MEDIAN	4.1	3.9	4.0	0.4	0.3	0.3
	MIN, MAX	0.3, 8.3	0.3, 9.8	0.3, 9.8	0.3, 1.1	0.3, 1.3	0.3, 1.3
Never been married	5%, 95%	0.3, 8.3	0.3, 9.8	0.3, 9.8	0.3, 1.1	0.3, 1.3	0.3, 1.1
	BLQ Values Included	1	1	2	4	10	14
	N	8	8	16	17	13	30
	MEAN, GEO MEAN	5.2, 4.3	4.6, 4.3	4.9, 4.3	0.5, 0.4	0.4, 0.3	0.4, 0.4
	SD, SE	3.79, 1.34	1.85, 0.65	2.90, 0.72	0.19, 0.05	0.15, 0.04	0.18, 0.03
	MEDIAN	4.3	4.6	4.3	0.3	0.3	0.3
Separated	MIN, MAX	1.5, 13.9	1.9, 7.4	1.5, 13.9	0.3, 0.9	0.3, 0.7	0.3, 0.9
	5%, 95%	1.5, 13.9	1.9, 7.4	1.5, 13.9	0.3, 0.9	0.3, 0.7	0.3, 0.7
	BLQ Values Included	0	0	0	6	8	14
	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	3.1, 3.1	3.1, 3.1	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
Widowed	MEDIAN	NA	3.1	3.1	NA	NA	NA
	MIN, MAX	NA, NA	3.1, 3.1	3.1, 3.1	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.6, 0.6	0.5, 0.4
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.21, 0.15
	MEDIAN	NA	NA	NA	0.3	0.6	0.5
	MIN, MAX	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.6, 0.6	0.3, 0.6
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.3, 0.6
	BLQ Values Included	NA	NA	NA	1	0	1

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: CCLS
Biomarker: Carboxyhemoglobin (% saturation)
Timepoint: Overall

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	1	8	9	2	7	9
	MEAN, GEO MEAN	3.2, 3.2	5.2, 4.7	5.0, 4.5	0.4, 0.4	0.4, 0.4	0.4, 0.4
	SD, SE	NA, NA	2.28, 0.81	2.23, 0.74	0.00, 0.00	0.24, 0.09	0.20, 0.07
	MEDIAN	3.2	4.9	4.3	0.4	0.3	0.3
	MIN, MAX	3.2, 3.2	2.4, 8.6	2.4, 8.6	0.4, 0.4	0.3, 0.9	0.3, 0.9
	5%, 95%	NA, NA	2.4, 8.6	2.4, 8.6	0.4, 0.4	0.3, 0.9	0.3, 0.9
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	3.9, 2.6	4.3, 2.9	4.2, 2.8	0.4, 0.4	0.4, 0.4	0.4, 0.4
	SD, SE	2.76, 1.13	3.63, 1.09	3.26, 0.79	0.09, 0.03	0.21, 0.05	0.17, 0.03
	MEDIAN	3.6	3.2	3.4	0.4	0.3	0.4
	MIN, MAX	0.3, 7.8	0.7, 11.0	0.3, 11.0	0.3, 0.6	0.3, 1.1	0.3, 1.1
	5%, 95%	0.3, 7.8	0.7, 11.0	0.3, 11.0	0.3, 0.6	0.3, 1.1	0.3, 0.6
Never been married	N	11	11	22	17	13	30
	MEAN, GEO MEAN	4.6, 3.6	3.9, 2.9	4.2, 3.2	0.5, 0.5	0.3, 0.3	0.4, 0.4
	SD, SE	3.35, 1.01	2.60, 0.78	2.95, 0.63	0.25, 0.06	0.08, 0.02	0.21, 0.04
	MEDIAN	4.3	4.1	4.1	0.4	0.3	0.4
	MIN, MAX	1.3, 12.2	0.6, 8.9	0.6, 12.2	0.3, 1.3	0.3, 0.5	0.3, 1.3
	5%, 95%	1.3, 12.2	0.6, 8.9	0.6, 8.9	0.3, 1.3	0.3, 0.5	0.3, 0.8
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	5.4, 4.7	5.4, 4.7	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	3.68, 2.60	3.68, 2.60	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	5.4	5.4	NA	NA	NA
	MIN, MAX	NA, NA	2.8, 8.0	2.8, 8.0	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	2.8, 8.0	2.8, 8.0	NA, NA	NA, NA	NA, NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.4, 0.4	0.4, 0.3
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.07, 0.05
	MEDIAN	NA	NA	NA	0.3	0.4	0.4
	MIN, MAX	NA, NA	NA, NA	NA, NA	0.3, 0.3	0.4, 0.4	0.3, 0.4
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.3, 0.4

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., <1.234' will be used as '1.234' for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Harrogate
Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)
Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	1	8	9	2	7	9
	MEAN, GEO MEAN	4.86, 4.86	3.18, 2.70	3.36, 2.89	0.50, 0.50	0.50, 0.50	0.50, 0.50
	SD, SE	NA, NA	1.846, 0.653	1.816, 0.605	0.000, 0.000	0.000, 0.000	0.000, 0.000
	MEDIAN	4.86	2.78	3.52	0.50	0.50	0.50
	MIN, MAX	4.86, 4.86	1.23, 6.10	1.23, 6.10	0.50, 0.50	0.50, 0.50	0.50, 0.50
	5%, 95%	NA, NA	1.23, 6.10	1.23, 6.10	0.50, 0.50	0.50, 0.50	0.50, 0.50
	BLQ Values Included	0	0	0	2	7	9
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	2.54, 1.96	2.87, 2.03	2.76, 2.00	0.50, 0.50	0.84, 0.64	0.70, 0.58
	SD, SE	1.943, 0.793	2.831, 0.854	2.493, 0.605	0.009, 0.003	1.048, 0.271	0.818, 0.164
	MEDIAN	2.09	1.74	1.74	0.50	0.50	0.50
	MIN, MAX	0.50, 6.08	0.50, 10.41	0.50, 10.41	0.50, 0.53	0.50, 4.59	0.50, 4.59
	5%, 95%	0.50, 6.08	0.50, 10.41	0.50, 10.41	0.50, 0.53	0.50, 4.59	0.50, 0.97
	BLQ Values Included	1	1	2	9	10	19
Never been married	N	11	10	21	17	13	30
	MEAN, GEO MEAN	6.01, 4.11	3.56, 2.55	4.84, 3.27	0.51, 0.51	0.54, 0.53	0.52, 0.52
	SD, SE	5.024, 1.515	3.145, 0.995	4.318, 0.942	0.029, 0.007	0.080, 0.022	0.057, 0.010
	MEDIAN	5.15	2.14	2.74	0.50	0.50	0.50
	MIN, MAX	0.87, 15.03	0.95, 9.39	0.87, 15.03	0.50, 0.62	0.50, 0.77	0.50, 0.77
	5%, 95%	0.87, 15.03	0.95, 9.39	0.87, 14.04	0.50, 0.62	0.50, 0.77	0.50, 0.62
	BLQ Values Included	0	0	0	15	10	25
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	3.68, 3.27	3.68, 3.27	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	2.376, 1.680	2.376, 1.680	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	3.68	3.68	NA	NA	NA
	MIN, MAX	NA, NA	2.00, 5.36	2.00, 5.36	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	2.00, 5.36	2.00, 5.36	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	0.50, 0.50	0.72, 0.72	0.61, 0.60
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.156, 0.110
	MEDIAN	NA	NA	NA	0.50	0.72	0.61
	MIN, MAX	NA, NA	NA, NA	NA, NA	0.50, 0.50	0.72, 0.72	0.50, 0.72
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.50, 0.72
	BLQ Values Included	NA	NA	NA	1	0	1

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Harrogate
Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)
Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	3.35, 2.82	3.35, 2.82	0.50, 0.50	0.69, 0.60	0.65, 0.58
	SD, SE	NA, NA	1.865, 0.659	1.865, 0.659	0.000, 0.000	0.506, 0.191	0.447, 0.149
	MEDIAN	NA	3.50	3.50	0.50	0.50	0.50
	MIN, MAX	NA, NA	1.07, 6.05	1.07, 6.05	0.50, 0.50	0.50, 1.84	0.50, 1.84
	5%, 95%	NA, NA	1.07, 6.05	1.07, 6.05	0.50, 0.50	0.50, 1.84	0.50, 1.84
	BLQ Values Included	NA	0	0	2	6	8
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	2.72, 2.13	8.54, 2.48	6.48, 2.35	0.50, 0.50	0.57, 0.55	0.54, 0.53
	SD, SE	1.864, 0.761	18.558, 5.596	14.986, 3.635	0.000, 0.000	0.179, 0.046	0.141, 0.028
	MEDIAN	2.52	1.60	1.92	0.50	0.50	0.50
	MIN, MAX	0.50, 5.93	0.50, 63.34	0.50, 63.34	0.50, 0.50	0.50, 1.02	0.50, 1.02
	5%, 95%	0.50, 5.93	0.50, 63.34	0.50, 63.34	0.50, 0.50	0.50, 1.02	0.50, 1.00
	BLQ Values Included	1	2	3	10	13	23
Never been married	N	8	8	16	17	13	30
	MEAN, GEO MEAN	6.19, 4.62	4.55, 3.21	5.37, 3.85	0.67, 0.58	0.50, 0.50	0.59, 0.55
	SD, SE	4.430, 1.566	3.690, 1.304	4.028, 1.007	0.506, 0.123	0.000, 0.000	0.385, 0.070
	MEDIAN	5.17	3.28	4.29	0.50	0.50	0.50
	MIN, MAX	1.09, 12.65	1.09, 9.83	1.09, 12.65	0.50, 2.46	0.50, 0.50	0.50, 2.46
	5%, 95%	1.09, 12.65	1.09, 9.83	1.09, 12.65	0.50, 2.46	0.50, 0.50	0.50, 1.35
	BLQ Values Included	0	0	0	15	13	28
Separated	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	2.28, 2.28	2.28, 2.28	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	2.28	2.28	NA	NA	NA
	MIN, MAX	NA, NA	2.28, 2.28	2.28, 2.28	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	0.50, 0.50	1.45, 1.45	0.98, 0.85
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.672, 0.475
	MEDIAN	NA	NA	NA	0.50	1.45	0.98
	MIN, MAX	NA, NA	NA, NA	NA, NA	0.50, 0.50	1.45, 1.45	0.50, 1.45
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.50, 1.45
	BLQ Values Included	NA	NA	NA	1	0	1

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Harrogate
Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)
Timepoint: Overall^a

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	1	8	9	2	7	9
	MEAN, GEO MEAN	4.86, 4.86	3.26, 2.79	3.44, 2.96	0.50, 0.50	0.60, 0.56	0.57, 0.55
	SD, SE	NA, NA	1.765, 0.624	1.735, 0.578	0.000, 0.000	0.253, 0.096	0.223, 0.074
	MEDIAN	4.86	3.25	3.92	0.50	0.50	0.50
	MIN, MAX	4.86, 4.86	1.16, 5.67	1.16, 5.67	0.50, 0.50	0.50, 1.17	0.50, 1.17
	5%, 95%	NA, NA	1.16, 5.67	1.16, 5.67	0.50, 0.50	0.50, 1.17	0.50, 1.17
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	2.63, 2.05	5.71, 2.62	4.62, 2.40	0.50, 0.50	0.70, 0.62	0.62, 0.57
	SD, SE	1.901, 0.776	9.348, 2.818	7.618, 1.848	0.006, 0.002	0.521, 0.135	0.411, 0.082
	MEDIAN	2.31	2.13	2.13	0.50	0.50	0.50
	MIN, MAX	0.50, 6.01	0.50, 32.18	0.50, 32.18	0.50, 0.52	0.50, 2.55	0.50, 2.55
	5%, 95%	0.50, 6.01	0.50, 32.18	0.50, 32.18	0.50, 0.52	0.50, 2.55	0.50, 0.76
Never been married	N	11	11	22	17	13	30
	MEAN, GEO MEAN	5.69, 4.00	3.64, 2.64	4.66, 3.25	0.59, 0.56	0.52, 0.52	0.56, 0.54
	SD, SE	4.561, 1.375	3.120, 0.941	3.955, 0.843	0.259, 0.063	0.042, 0.012	0.197, 0.036
	MEDIAN	5.18	1.83	2.87	0.50	0.50	0.50
	MIN, MAX	0.87, 13.35	1.02, 9.34	0.87, 13.35	0.50, 1.48	0.50, 0.64	0.50, 1.48
	5%, 95%	0.87, 13.35	1.02, 9.34	0.98, 13.14	0.50, 1.48	0.50, 0.64	0.50, 0.99
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	3.75, 3.39	3.75, 3.39	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	2.277, 1.610	2.277, 1.610	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	3.75	3.75	NA	NA	NA
	MIN, MAX	NA, NA	2.14, 5.36	2.14, 5.36	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	2.14, 5.36	2.14, 5.36	NA, NA	NA, NA	NA, NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	0.50, 0.50	1.09, 1.09	0.80, 0.74
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.417, 0.295
	MEDIAN	NA	NA	NA	0.50	1.09	0.80
	MIN, MAX	NA, NA	NA, NA	NA, NA	0.50, 0.50	1.09, 1.09	0.50, 1.09
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	0.50, 1.09

^a Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Harrogate

Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)

Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	1	8	9	2	7	9
	MEAN, GEO MEAN	47.22, 47.22	28.64, 27.81	30.70, 29.49	4.60, 4.53	8.78, 8.19	7.85, 7.18
	SD, SE	NA, NA	7.059, 2.496	9.054, 3.018	1.131, 0.800	4.027, 1.522	3.964, 1.321
	MEDIAN	47.22	30.10	31.63	4.60	7.59	6.54
	MIN, MAX	47.22, 47.22	17.33, 38.70	17.33, 47.22	3.80, 5.40	5.47, 17.37	3.80, 17.37
	5%, 95%	NA, NA	17.33, 38.70	17.33, 47.22	3.80, 5.40	5.47, 17.37	3.80, 17.37
	BLQ Values Included	0	0	0	0	0	0
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	29.38, 25.68	28.24, 22.24	28.64, 23.40	5.61, 5.21	8.51, 7.48	7.35, 6.47
	SD, SE	16.860, 6.883	19.432, 5.859	18.032, 4.373	2.309, 0.730	4.950, 1.278	4.289, 0.858
	MEDIAN	25.09	20.11	21.23	5.17	6.96	6.22
	MIN, MAX	12.76, 57.32	5.37, 67.83	5.37, 67.83	2.90, 9.77	2.49, 23.25	2.49, 23.25
	5%, 95%	12.76, 57.32	5.37, 67.83	5.37, 67.83	2.90, 9.77	2.49, 23.25	2.90, 13.38
	BLQ Values Included	0	0	0	0	0	0
Never been married	N	11	10	21	17	13	30
	MEAN, GEO MEAN	53.95, 45.39	25.24, 21.51	40.28, 31.80	7.00, 6.23	6.98, 6.52	6.90, 6.35
	SD, SE	30.507, 9.198	13.071, 4.133	27.534, 6.009	3.459, 0.839	2.715, 0.753	3.107, 0.567
	MEDIAN	45.61	23.73	32.65	6.95	6.76	6.78
	MIN, MAX	12.37, 100.50	5.35, 46.89	5.35, 100.50	3.21, 13.87	2.95, 12.31	2.95, 13.87
	5%, 95%	12.37, 100.50	5.35, 46.89	11.43, 90.72	3.21, 13.87	2.95, 12.31	3.21, 13.59
	BLQ Values Included	0	0	0	0	0	0
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	38.04, 35.93	38.04, 35.93	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	17.649, 12.480	17.649, 12.480	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	38.04	38.04	NA	NA	NA
	MIN, MAX	NA, NA	25.56, 50.52	25.56, 50.52	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	25.56, 50.52	25.56, 50.52	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	4.01, 4.01	11.63, 11.63	7.82, 6.83
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	5.388, 3.810
	MEDIAN	NA	NA	NA	4.01	11.63	7.82
	MIN, MAX	NA, NA	NA, NA	NA, NA	4.01, 4.01	11.63, 11.63	4.01, 11.63
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	4.01, 11.63
	BLQ Values Included	NA	NA	NA	0	0	0

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Harrogate

Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)

Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	0	8	8	2	7	9
	MEAN, GEO MEAN	NA, NA	41.78, 40.94	41.78, 40.94	4.89, 4.86	8.90, 8.55	8.01, 7.54
	SD, SE	NA, NA	8.972, 3.172	8.972, 3.172	0.750, 0.530	3.033, 1.146	3.179, 1.060
	MEDIAN	NA	42.07	42.07	4.89	8.75	7.37
	MIN, MAX	NA, NA	30.70, 56.26	30.70, 56.26	4.36, 5.42	6.23, 15.32	4.36, 15.32
	5%, 95%	NA, NA	30.70, 56.26	30.70, 56.26	4.36, 5.42	6.23, 15.32	4.36, 15.32
Married	BLQ Values Included	NA	0	0	0	0	0
	N	6	11	17	10	15	25
	MEAN, GEO MEAN	32.62, 26.20	109.93, 44.05	82.64, 36.67	8.45, 7.81	9.22, 8.39	8.91, 8.15
	SD, SE	23.921, 9.766	233.014, 70.256	188.584, 45.738	3.668, 1.160	4.580, 1.182	4.174, 0.835
	MEDIAN	24.25	36.64	29.11	8.04	8.43	8.43
	MIN, MAX	9.56, 74.58	7.32, 808.80	7.32, 808.80	4.11, 16.50	4.09, 22.67	4.09, 22.67
Never been married	5%, 95%	9.56, 74.58	7.32, 808.80	7.32, 808.80	4.11, 16.50	4.09, 22.67	4.11, 16.50
	BLQ Values Included	0	0	0	0	0	0
	N	8	8	16	17	13	30
	MEAN, GEO MEAN	53.77, 48.64	33.69, 28.82	43.73, 37.44	9.94, 8.63	7.68, 7.21	8.96, 7.99
	SD, SE	24.997, 8.838	16.440, 5.812	22.917, 5.729	6.211, 1.506	3.108, 0.862	5.155, 0.941
	MEDIAN	51.56	34.68	38.15	7.71	6.88	7.31
Separated	MIN, MAX	23.93, 97.75	7.27, 56.48	7.27, 97.75	4.31, 27.86	4.36, 15.91	4.31, 27.86
	5%, 95%	23.93, 97.75	7.27, 56.48	7.27, 97.75	4.31, 27.86	4.36, 15.91	4.36, 20.64
	BLQ Values Included	0	0	0	0	0	0
	N	0	1	1	0	0	0
	MEAN, GEO MEAN	NA, NA	39.55, 39.55	39.55, 39.55	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
Widowed	MEDIAN	NA	39.55	39.55	NA	NA	NA
	MIN, MAX	NA, NA	39.55, 39.55	39.55, 39.55	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA
	BLQ Values Included	NA	0	0	NA	NA	NA
	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	4.49, 4.49	14.98, 14.98	9.74, 8.20
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	7.418, 5.245
	MEDIAN	NA	NA	NA	4.49	14.98	9.74
	MIN, MAX	NA, NA	NA, NA	NA, NA	4.49, 4.49	14.98, 14.98	4.49, 14.98
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	4.49, 14.98
	BLQ Values Included	NA	NA	NA	0	0	0

TABLE 14.4-5
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: MARITAL STATUS
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Lab: Harrogate
Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)
Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Divorced	N	1	8	9	2	7	9
	MEAN, GEO MEAN	47.22, 47.22	35.21, 34.57	36.54, 35.79	4.75, 4.70	8.84, 8.40	7.93, 7.39
	SD, SE	NA, NA	7.010, 2.478	7.683, 2.561	0.940, 0.665	3.470, 1.312	3.522, 1.174
	MEDIAN	47.22	35.98	36.14	4.75	7.74	6.91
	MIN, MAX	47.22, 47.22	25.01, 43.95	25.01, 47.22	4.08, 5.41	6.42, 16.35	4.08, 16.35
	5%, 95%	NA, NA	25.01, 43.95	25.01, 47.22	4.08, 5.41	6.42, 16.35	4.08, 16.35
Married	N	6	11	17	10	15	25
	MEAN, GEO MEAN	31.00, 26.43	69.08, 36.60	55.64, 32.62	7.03, 6.54	8.87, 8.12	8.13, 7.44
	SD, SE	18.975, 7.746	114.557, 34.540	93.094, 22.579	2.886, 0.913	4.531, 1.170	3.993, 0.799
	MEDIAN	24.27	30.83	29.03	6.49	7.24	6.98
	MIN, MAX	12.73, 57.36	6.35, 408.68	6.35, 408.68	3.62, 12.53	4.71, 22.96	3.62, 22.96
	5%, 95%	12.73, 57.36	6.35, 408.68	6.35, 408.68	3.62, 12.53	4.71, 22.96	4.19, 12.54
Never been married	N	11	11	22	17	13	30
	MEAN, GEO MEAN	50.35, 42.97	27.60, 23.71	38.98, 31.92	8.47, 7.50	7.33, 7.02	7.98, 7.29
	SD, SE	27.605, 8.323	13.890, 4.188	24.297, 5.180	4.622, 1.121	2.266, 0.628	3.774, 0.689
	MEDIAN	45.61	27.91	34.80	7.95	7.02	7.12
	MIN, MAX	12.37, 99.13	6.31, 49.24	6.31, 99.13	3.83, 20.87	4.07, 11.65	3.83, 20.87
	5%, 95%	12.37, 99.13	6.31, 49.24	11.43, 82.02	3.83, 20.87	4.07, 11.65	3.84, 15.04
Separated	N	0	2	2	0	0	0
	MEAN, GEO MEAN	NA, NA	41.54, 40.56	41.54, 40.56	NA, NA	NA, NA	NA, NA
	SD, SE	NA, NA	12.700, 8.980	12.700, 8.980	NA, NA	NA, NA	NA, NA
	MEDIAN	NA	41.54	41.54	NA	NA	NA
	MIN, MAX	NA, NA	32.56, 50.52	32.56, 50.52	NA, NA	NA, NA	NA, NA
	5%, 95%	NA, NA	32.56, 50.52	32.56, 50.52	NA, NA	NA, NA	NA, NA
Widowed	N	0	0	0	1	1	2
	MEAN, GEO MEAN	NA, NA	NA, NA	NA, NA	4.25, 4.25	13.31, 13.31	8.78, 7.52
	SD, SE	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	6.406, 4.530
	MEDIAN	NA	NA	NA	4.25	13.31	8.78
	MIN, MAX	NA, NA	NA, NA	NA, NA	4.25, 4.25	13.31, 13.31	4.25, 13.31
	5%, 95%	NA, NA	NA, NA	NA, NA	NA, NA	NA, NA	4.25, 13.31

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.